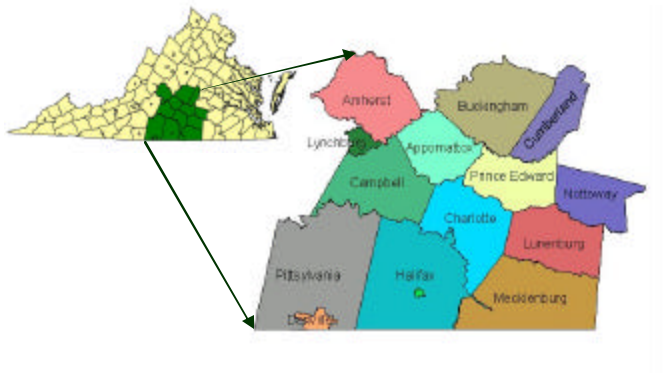


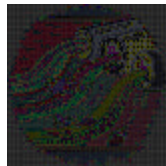
WHERE DO WE WORK?

The South Central Region of the DEQ covers 12 counties and 2 cities.

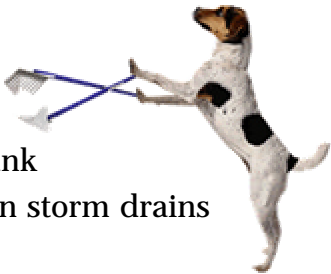


HOW CAN YOU HELP?

- Start in your own backyard!!
- Attend TMDL meetings and encourage others to do so!
- Incorporate water quality issues into local planning
- Form or join a local watershed group
- Stencil your storm drains
- Participate in the TMDL implementation process



Maintain your septic tank
Don't pour things down storm drains
Pick up after your pets
Fence livestock out of streams



Virginia Department of Environmental Quality
South Central Region

Total Maximum Daily Load Development

Everything You Ever Wanted to Know about TMDLs. . . And A Lot More!!

GOAL

The **Virginia Department of Environmental Quality's** goal is to work with the public to restore and maintain water quality in **impaired waters**.



James River

WHAT IS AN IMPAIRED WATER?

An **impaired water** is any segment of stream or river that does not meet **State Water Quality Standards**.

HOW DO WE "FIX" IMPAIRED WATERS?

The **first step** in restoring water quality in impaired streams and rivers is to conduct a **Total Maximum Daily Load Study**.

TOTAL MAXIMUM DAILY LOAD (TMDL)
is the amount of pollution a stream can receive
and still meet Water Quality Standards

www.deq.virginia.gov/tmdl



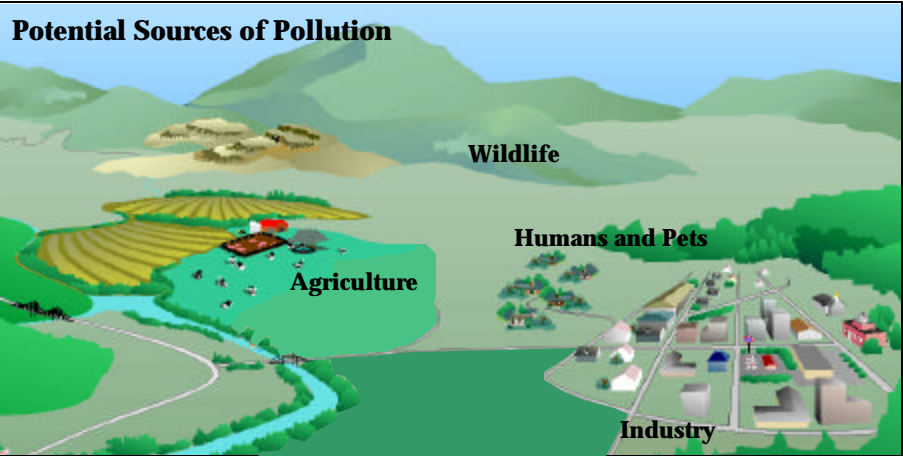
WHAT ARE SOME POLLUTANTS IN OUR STREAMS?

E.Coliform and Fecal Coliform (bacteria)	Sediment
Nutrients (nitrogen and phosphorus)	PCBs

WHAT HAPPENS DURING A TMDL STUDY?

- 1. Identify pollutants exceeding State Water Quality Standards..
- 2. Intensively sample water quality in impaired watersheds for **1 year**.
- 3. Form a **TMDL Steering Committee** (local citizen, government, business, and non-profit representatives). Committee reviews the study continually.
- 4. Identify and quantify **all sources** of a given pollutant in the watershed.
- 5. Build a computer model of the impaired watershed that analyzes pollutant sources and calculates pollutant reductions needed to meet State Standards

Potential Sources of Pollution



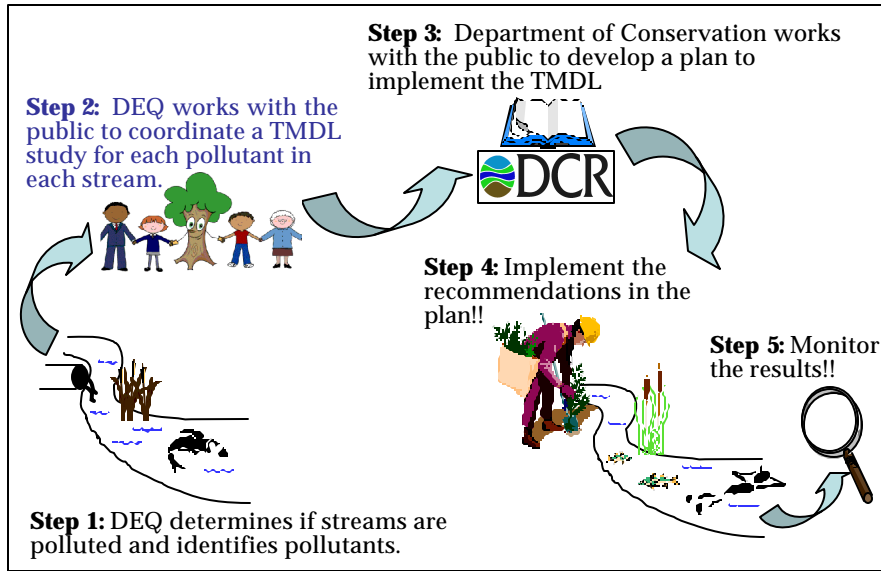
The Virginia Department of Environmental Quality is mandated by the **Clean Water Act (1972)** and the **Water Quality Monitoring Information and Restoration Act (1997)** to establish TMDLs for all streams not meeting water quality standards.

HOW IS THE PUBLIC INVOLVED?



- Members of the public may join the TMDL Steering Committee.*
- Multiple public meetings are held to explain the TMDL study results.*
- Drafts of the TMDL report are made available for public comment.*

WHAT HAPPENS AFTER A TMDL STUDY?



A TMDL study is only the first step in restoring water quality